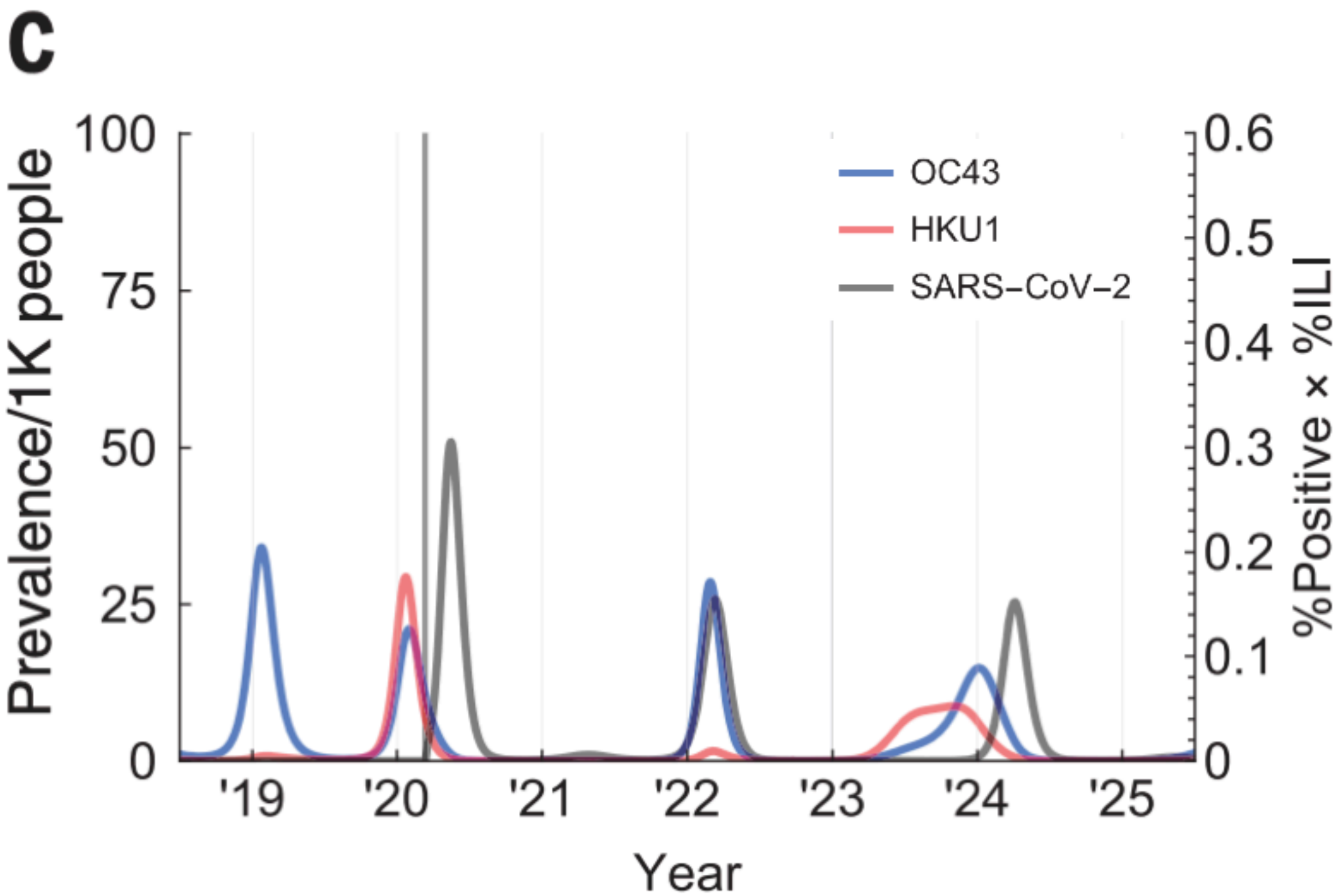
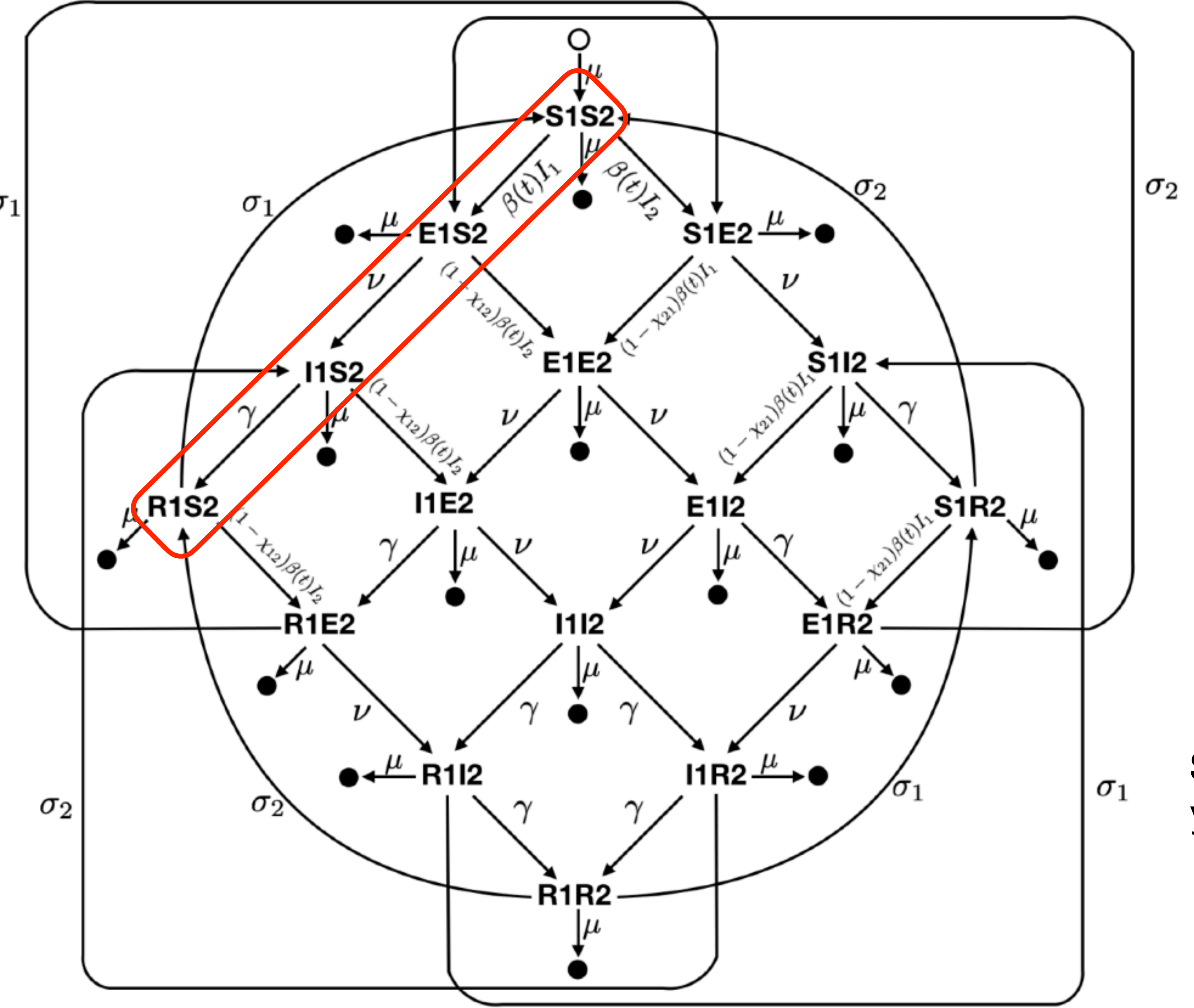
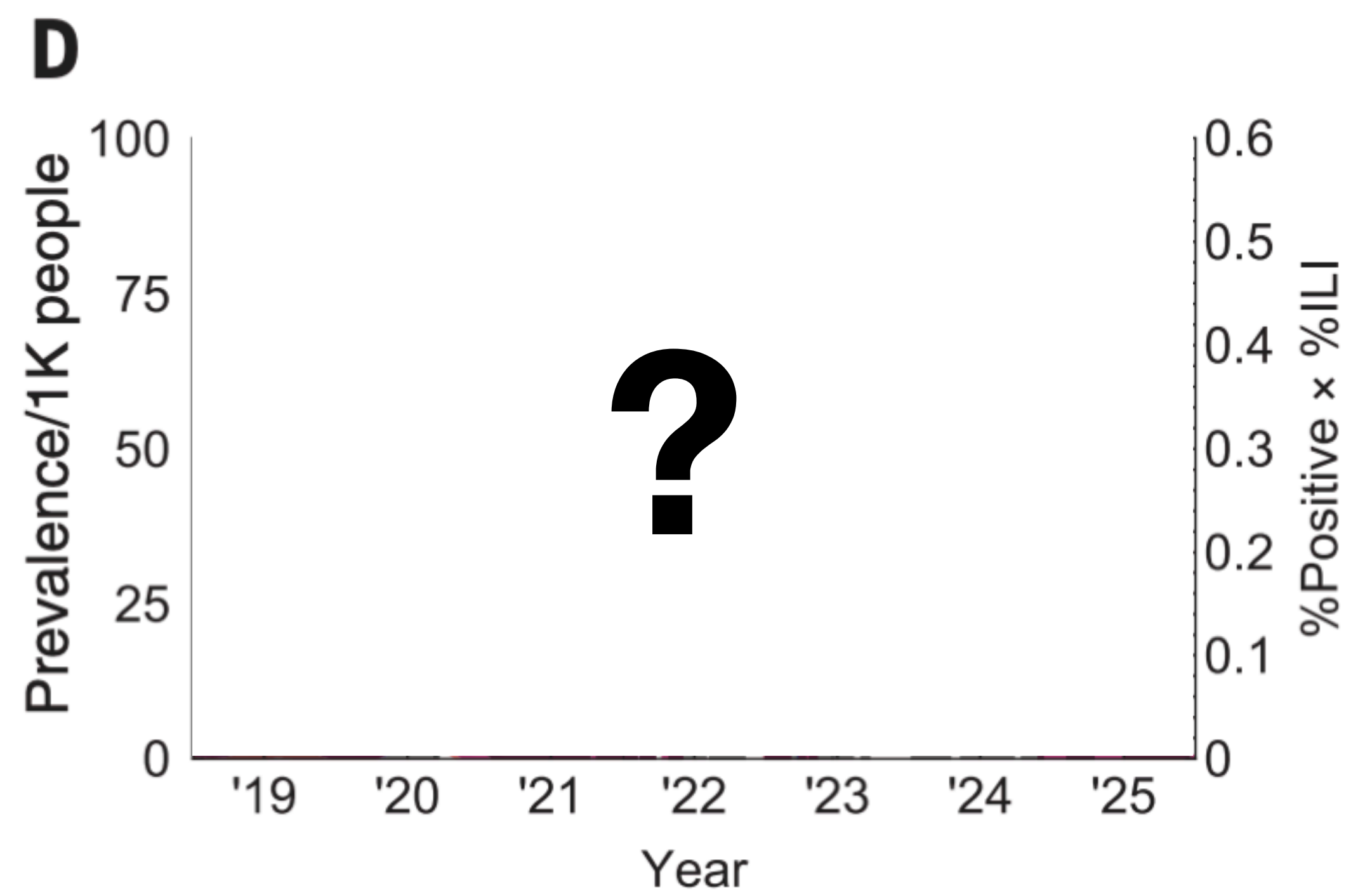
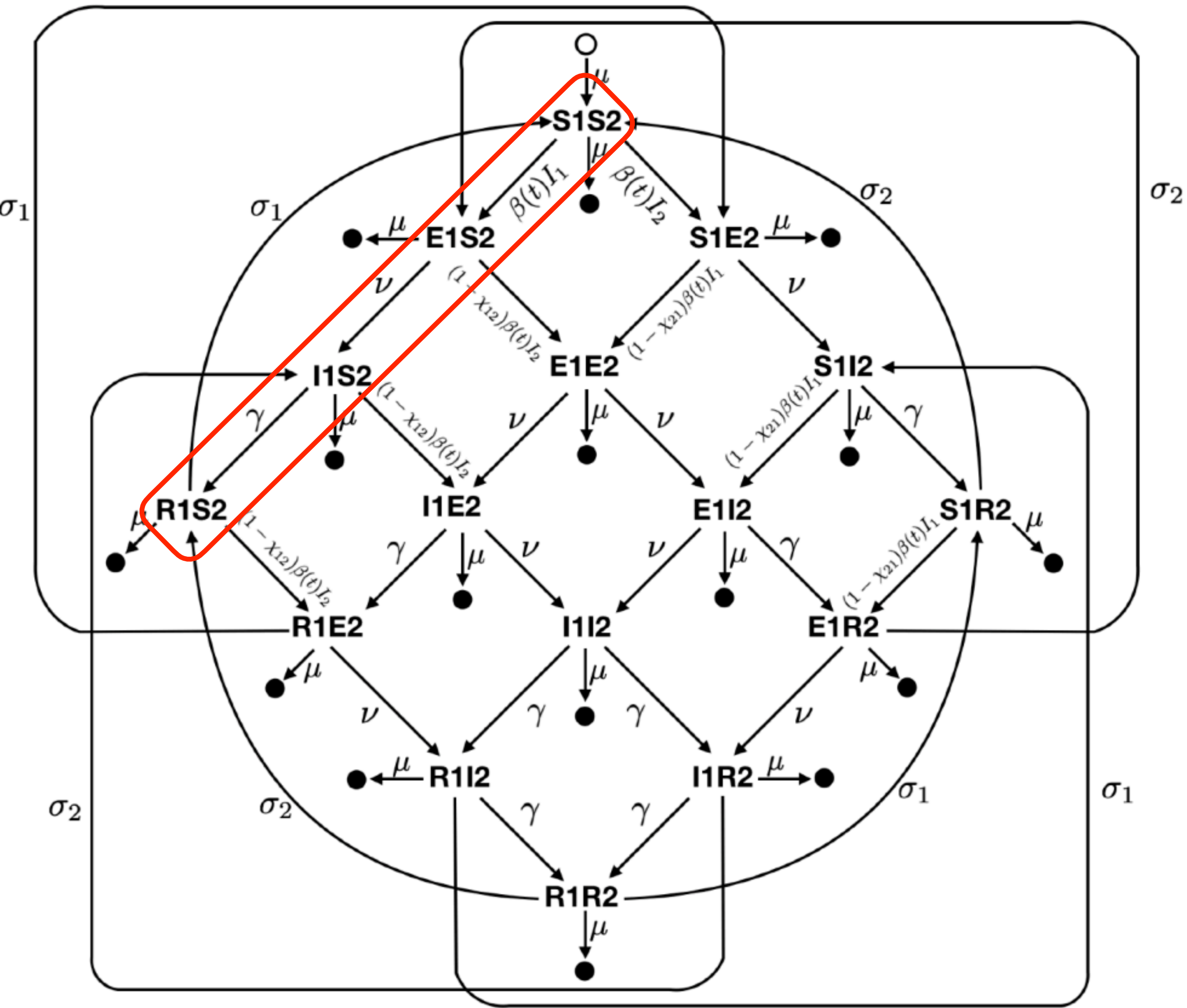


The full model



Stronger seasonal transmission ($\beta(t)$ has bigger wiggles) can yield a smaller summer outbreak but larger winter outbreaks

The full model



Long-term immunity ($1/\sigma = \text{infinity}$)